

The Cell & Its Environment Notes Review

Name: _____ Date: _____

Table Role: _____ Section: _____

- 1) According to Sutton's observations, how does the number of chromosomes in a grasshopper's body cells compare to the number in its sex cells?
- 2) Describe what happens to the number of chromosomes when two grasshopper sex cells join in fertilization?
- 3) How do Sutton's observations about chromosome number support the chromosome theory of inheritance?
- 4) Briefly describe the stages in Meiosis.
- 5) How does the order of genes in one member of a chromosome pair compare to the order of genes on the other chromosome?

Performance Task: Meiosis Vs. Mitosis

Draw or describe (or both) how mitosis and meiosis are similar. Be sure to give details about the organelles as well as cover all stages of each cycle.